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Document Structure

The present report is organized into a framework of six chapters, as follows:

- Chapter 1 serves as an introduction to the document.
- Chapter 2 describes the geographic setting, the resources at risk and the major issues concerning the use and conservation of resources within Florida Bay and its watershed.
- Chapter 3 describes resource functions, considerations and exclusions for Florida Bay.
- Chapter 4 documents the methods used to assess impacts for the different areas, resources and functions, and it describes the results of associated analyses.
- Chapter 5 outlines the specific hydrologic information developed to indicate the degree of resource impact that occurs, and it provides an analysis of the specific relevant factors and implications of salinity-flow relationships. Needs for future monitoring, research and modeling are also described.

Appendices A through J, under separate cover, include technical information such as legal documents related to Minimum Flows and levels and Florida Bay Resources, descriptions and analyses of methods and tools, supplemental data and analyses, and associated literature citations. Additional appendices of supplemental information are anticipated as necessary to support this plan through administrative rulemaking, including results of the peer review and related correspondence, additional laws and rules, and descriptions of other MFL-related activities in the watershed.

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List of Appendices

Appendices A through J, under separate cover, include technical information such as descriptions and analyses of methods and tools, supplemental data and analyses, and associated literature citations. Additional appendices of supplemental information are anticipated as necessary to support this plan through administrative rulemaking, including results of the peer review and related correspondence, laws and rules, and other MFL-related activities in the watershed.

Appendix A	Selected passages from the Florida Statutes and Florida Administrative Code
Appendix B	The Use of Conceptual Ecological Models to Guide Ecosystem Restoration in South Florida (Ogden 2005) A Conceptual Ecological Model of Florida Bay (Rudnick 2005) A Conceptual Model of Ecological Interactions in the Mangrove Estuaries of the Florida Everglades (Davis 2005)
Appendix C	Final Report Fathom Enhancements and Implementation to Support Development of Minimum Flows and Levels for Florida Bay (Marshall 2005)
Appendix D	Correspondence regarding the historical reconstruction of the salinity time series for Taylor River for the period 1970 – 2000. Interagency Modeling Center's report on Statistical Model
Appendix E	Influence of net freshwater supply on salinity in Florida Bay (Nuttle 2000)
Appendix F	Excerpt from Appendix C: Methodology to determine flows to Florida Bay
Appendix G	Description, Features and Assumptions used in 2000 Base, 2050 Base, CERP1, and NSM Model Runs
Appendix H	Correspondence regarding monthly salinity simulations for Taylor River Interim CERP Update Runs
Appendix I	Sea grass model documentation and uncertainty analysis
Appendix J	Statistical Models of Florida Bay Fishes and Crustaceans to Evaluate Minimum Flows and Levels in Florida Bay

Acronyms and Abbreviations

ac-ft	acre-feet
C&SF Project	Central and Southern Florida Flood Control Project
CERP	Comprehensive Everglades Restoration Plan
cfs	cubic feet per second
CUP	consumptive use permitting
DBHYDRO	District's hydrometeorologic database
DERM	Miami-Dade County Department of Environmental Resource Management
Df	degrees of freedom (statistical term)
District	South Florida Water Management District
ENP	Everglades National Park
ET	evapotranspiration
F.A.C.	Florida Administrative Code
FATHOM	Flux-Accounting Tidal Hydrology Ocean Model -
FB/FKFS	Florida Bay/Florida Keys Feasibility Study
FDEP	Florida Department of Environmental Protection
FIU	Florida International University
FKNMS	Florida Keys National Marine Sanctuary
F.S.	Florida Statutes
FWC	Florida Fish and Wildlife Conservation Commission
g	grams
g dw	grams dry weight
GUI	graphical user interface
GUIDE	graphical user interface development environment
MAP	Monitoring and Assessment Plan
MFL	Minimum Flow and Level
mgd	million gallons per day
MLLW	mean lower low water
msl	mean sea level

NGVD	National Geodetic Vertical Datum
NSM	Natural System Model
OFW	Outstanding Florida Water
ppt	parts per thousand
psu	practical salinity units
PWS	public water supply
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
RECOVER	Restoration Coordination and Verification
RSMAS	Rosenstiel School of Marine and Atmospheric Science
SAV	submerged aquatic vegetation
SDCS	South Dade Conveyance System
SFWMD	South Florida Water Management District
SFWMM	South Florida Water Management Model
SWIM	Surface Water Improvement and Management
TMDL	Total Maximum Daily Load
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VEC	valued ecosystem component
WCA	Water Conservation Area
WMD	water management district